

1652

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Group Art Unit: 1652

Attorney
Docket: 01/22781

Examiner: Richard G. Hutson

INFORMATION DISCLOSURE STATEMENT

Date: August 14, 2003

SEP 22 2003

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Application Number	09/988,113
Filing Date	March 1, 1999
First Named Inventor	Pecker et al
Group Art Unit	1652
Examiner Name	Hutson, Richard G.

Attorney Docket Number	01/22781
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U.S. PATENT DOCUMENTS

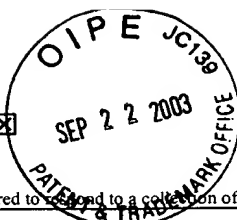
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			Filing Date	March 1, 1999	
			First Named Inventor	Pecker et al	
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			Examiner Name	Hutson, Richard G.	
Sheet	2	of	3	Attorney Docket Number	01/22781
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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		Ernst et al, "Enzymatic Degradation of Glycosaminoglycans", <i>Critical Rev. in Biochemistry and Mol. Biology</i> , 30(5):387-444, 1995			
		Linhardt et al, "Polysaccharide Lyases", <i>Applied Biochemistry and Biotechnology</i> , 12:135-176, 1986			
		Kosir et al, "Human Prostrate Carcinoma Cells Produce Extracellular Heparanase", <i>J. Surgical Res.</i> , 67:98-105, 1997			
		Mollinedo et al, "Major Co-Localization of the Extracellular-Matrix Degradative Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem.</i> , 327:917-923, 1997			
		DeVouge et al, "Immunoselection of GRP94/Endoplasmic from a KNRK Cell-Specific λ gt11 Library Using Antibodies Directed Against a Putative Heparanase Amino-Terminal Peptide", <i>Int. J. Cancer</i> , 56:286-294, 1994			
		Marchetti et al, "Neutrotrophin Stimulation of Human Melanoma Cell Invasion: Selected Enhancement of Heparanase Activity and Heparanase Degradation of Specific Heparan Sulfate Subpopulations", <i>Cancer Research</i> , 56:2856-2863, 1996			
		Marchetti et al, "Neutrotrophin Stimulation of Human Melanoma Cell Invasion: Selected Enhancement of Heparanase Activity and Heparanase Degradation of Specific Heparan Sulfate Subpopulations", <i>Advances in Enzyme Regulation</i> , 37:111-134, 1997			
		Jin et al, Immunochemical Localization of Heparanase in Mouse and Human Melanomas", <i>Int. J. Cancer</i> , 45:1088-1095, 1990			
		Fairbanks et al, "Processing of the Human Heparanase Precursor and Evidence that the Active Enzyme is a Heterodimer", <i>J. Biol. Chem.</i> , 274(42):29587-29590, 1999			
		Toyoshima et al, "Human Heparanase", <i>J. Biol. Chem.</i> , 274(34):24153-24160, 1999			
		Hoogewerf et al, "CXC Chemokines Connective Tissue Activating Peptide-III and Neutrophil Activating Peptide-2 are Heparin/Heparan Sulfate-degrading Enzymes", <i>J. Biol. Chem.</i> , 270(7):3268-3277, 1995			
		Freeman et al, "Evidence that Platelet and Tumour Heparanases are Similar Enzymes", <i>Biochem. J.</i> , 342:361-368, 1999			
		Vlodavsky et al, "Mammalian Heparanase: Gene Cloning, Expression and Function in Tumor Progression and Metastasis", <i>Nature Medicine</i> , 5(7):793-802, 1999			
		Hulett et al, "Cloning of Mammalian Heparanase, an Important Enzyme in Tumor Invasion and Metastasis", <i>Nature Medicine</i> , 5(7):803-809, 1999			
		Ngo et al, "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox", Chap. 14 from "The Protein Folding Problem and Tertiary Structure Prediction", Merz and LeGrand, Eds., Birkäuser, Boston, 1994			
		Oldberg et al, Characterization of a Platelet Endoglycosidase Degrading Heparin-Like Polysaccharides", <i>Biochemistry</i> , 19:5755-5762, 1980			
		Kussie et al, "Cloning and Functional Expression of a Human Heparanase Gene", <i>Biochem. And Biophysical Res. Comm.</i> , 261:183-187, 1999			
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		Walch et al, Correlation of Overexpression of the Low-Affinity p75 Neurotrophin Receptor with Augmented Invasion and Heparanase Production in Human Malignant Melanoma Cells", <i>Int. J. Cancer</i> , 82:112-120, 1999			
		Okamoto et al, "Highly Specific and Sensitive Detection of Malignancy in Urine Samples from Patients with Urothelial Cancer by CD44v8-10/CD44v10 Competitive RT-PCR", <i>Int. J. Cancer</i> , 79(6):560-564, 1998 (abstract only)			
		Zhou et al, "A 182 bp Fragment of the Mouse pro α 1(11) Collagen Gene is Sufficient to Direct Chondrocyte Expression in Transgenic Mice", <i>J. Cell Science</i> , 108:3677-3684, 1995			
		Hormuzdi et al, "A Gene-Targeting Approach Identifies a Function for the First Intron in Expression of the Alpha 1(I) Collagen Gene", <i>Mol. Cell Biol.</i> , 18(6):3368-3375, 1998 (abstract Only)			
		Kang et al, "Prolactin-Inducible Enhancer Activity of the First Intron of the Bovine Beta-Casein Gene", <i>Mol Cells</i> , 8(3):259-265, 1998 (abstract only)			
		Chow et al, "Development of an Epithelium-Specific Expression Cassette with Human DNA Regulatory Elements for Transgene Expression in Lung Airways", <i>Proc. Nat. Acad. Sci. USA</i> , 94:14695-14700, 1997			
		Gottschalk et al, "Somatic Gene Therapy. Present Situation and Future Perspective", <i>Arzneimittelforschung</i> , 48(11):1111-1120, 1998 (Abstract only)			
		Ye et al, "Targeted Gene Correction: A New Strategy for Molecular Medicine", <i>Molecular Medicine Today</i> , Oct. 1998, pp 431-437			
		Lai et al, "Homologous Recombination Based Gene Therapy", <i>Exp Nephrol</i> , 7(1):11-14, 1999 (abstract only)			
		Yazaki et al, "The structure and Expression of the FGF Receptor-1 mRNA Isoforms in Rat Tissue", <i>Biochemica et Biophysica Acta</i> , 1172:37-42, 1993			
		Le Fur et al, "Selective Increase in Specific Alternative Splice Variants of Tyrosinase in Murine Melanomas: A Projected Basis for Immunotherapy", <i>Proc. Natl. Acad. Sci. USA</i> , 94:5332-5337, 1997			
		Guriec et al, "CD44 Isoforms with Exon v6 and Metastasis of Primary N0M0 Breast Carcinomas", <i>Breast Cancer Res Treat</i> , 44(3):261-268, 1997			
		Gewirtz et al, "Nucleic Acid Therapeutics: State of the Art and Future Prospects", <i>Blood</i> , 92(3):712-736, 1998			
		Hida et al, "Antisense E1AF Transfection Restrains Oral Cancer Invasion by Reducing Matrix Metalloproteinase Activities", <i>Am J Pathol</i> , 50(6):2125-2132, 1997 (abstract only)			
		Shastri, BS, "Gene Disruption in Mice: Models of Development and Disease", <i>Molecular and Cellular Biochemistry</i> , 181:163-179, 1998			
		Carpentier et al, "DNA Vaccination with HuD Inhibits Growth of a Neuroblastoma in Mice", <i>Clinical Cancer Research</i> , 4:2819-2824, 1998			
		Lai, et al, "DNA Vaccines", <i>Critical Reviews in Immunology</i> , 18:449-484, 1998			
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